

is higher than said predetermined value.

C1
cont.
[Please amend claim 2 (amended) as follows:]

2. (Twice Amended) A piezo-oscillator comprising:

an oscillator circuit including a piezo-vibrator and an amplifier circuit, one terminal of said piezo-vibrator being connected to an input terminal of said amplifier circuit and another terminal of said piezo-vibrator being grounded via a capacitance element so that a frequency that is based upon resonance frequency of said piezo-vibrator is outputted from an output of said amplifier circuit,

a second switch circuit connected to a power source line for said amplifier circuit,

a constant-current circuit connected to said second switch circuit, and

a resistor connected to said second switch circuit; wherein

said second switch circuit

connects said power source line and said constant-current circuit when a voltage to be supplied from a power source is equal to or lower than a predetermined value, and

connects said power source line and said resistor when a voltage to be supplied from said power source is higher than said predetermined value.

[Please amend claim 3 (amended) as follows:]

3. (Twice Amended) A piezo-oscillator comprising:

an oscillator circuit including a piezo-vibrator and an amplifier circuit, one terminal of said piezo-vibrator being connected to an input terminal of said amplifier circuit and another terminal of said piezo-vibrator being grounded via a capacitance element so that a frequency that is based upon resonance frequency of said piezo-vibrator is outputted from an output of said amplifier circuit,

a constant-voltage circuit connected to a power source, and

a frequency control voltage section connected to said piezo-vibrator, and

a first switch circuit that connects, by selection, either one of said power source and said constant-voltage circuit to said amplifier circuit; wherein

said first switch circuit

selects said constant-voltage circuit when a voltage to be supplied to said

frequency control voltage section is equal to or lower than a predetermined value, and
selects said power source when a voltage to be supplied to said frequency control
voltage section is higher than said predetermined value.

C1
CMT.
[Please amend claim 4 (amended) as follows:]

4. (Twice Amended) A piezo-oscillator comprising:

an oscillator circuit including a piezo-vibrator and an amplifier circuit, one terminal of
said piezo-vibrator being connected to an input terminal of said amplifier circuit and another
terminal of said piezo-vibrator being grounded via a capacitance element so that a frequency that
is based upon resonance frequency of said piezo-vibrator is outputted from an output of said
amplifier circuit,

a frequency control voltage section connected to said piezo-vibrator,

a second switch circuit connected to a power source line of said oscillator circuit,

a constant-current circuit connected to said second switch circuit, and

a resistor connected to said second switch circuit; wherein

said second switch circuit

connects said power source line and said constant-current circuit when a voltage
to be supplied to said frequency control voltage section is equal to or lower than a predetermined
value, and

connects said power source line and said resistor when a voltage to be supplied to
said frequency control voltage section is higher than said predetermined value.

[Please amend claim 5 (amended) as follows:]

5. (Twice Amended) The piezo-oscillator according to claim 3, wherein when a
voltage supplied to said frequency control voltage section is higher than said predetermined
value, a voltage of said power source is controlled, and a drive level of said piezo-vibrator is
changed by changing a voltage to be supplied to said amplifier circuit.

C1
cont

[Please amend claim 6 (amended) as follows:]

6. (Twice Amended) The piezo-oscillator according to claim 4, wherein when a voltage supplied to said frequency control voltage section is higher than said predetermined value, a voltage of said power source is controlled, and a drive level of said piezo-vibrator is changed by changing a voltage to be supplied to said amplifier circuit.

[Please amend claim 7 as follows:]

7. (Amended) The piezo-oscillator according to claim 5 or 6, wherein it is possible to examine drive level dependency characteristics of said piezo-vibrator by controlling a drive level of said piezo-vibrator.

[Please amend claim 8 (amended) as follows:]

8. (Twice Amended) A piezo-oscillator comprising:

an oscillator circuit including a piezo-vibrator and an amplifier circuit, one terminal of said piezo-vibrator being connected to an input terminal of said amplifier circuit and another terminal of said piezo-vibrator being grounded via a capacitance element so that a frequency that is based upon resonance frequency of said piezo-vibrator is outputted from an output of said amplifier circuit,

a constant-voltage circuit connected to a power source,

a first switch circuit or a second switch circuit, said first switch circuit connecting, by selection, either one of said power source and said constant-voltage circuit to said amplifier circuit, and said second switch circuit being connected to a power source line for said oscillator circuit,

a constant-current circuit connected to said second switch circuit, and

a resistor connected to said second switch circuit; wherein

said first switch circuit

selects said constant-voltage circuit when a voltage to be supplied from said power source is equal to or lower than a predetermined value, and

selects said power source when a voltage to be supplied from said power source is higher than said predetermined value; or

said second switch circuit

*C1
concl'd.*

connects said power source line and said constant-current circuit when a voltage to be supplied from said power source is equal to or lower than a predetermined value, and connects said power source line and said resistor when a voltage to be supplied from said power source is higher than said predetermined value.

[Please amend claim 9 as follows:]

9. (Amended) The piezo-oscillator according to claim 6, wherein drive level dependency characteristics of said piezo-vibrator are examined by controlling a drive level of said piezo-vibrator.

[Please amend claim 10 as follows:]

10. (Amended) The piezo-oscillator according to claim 1, wherein when said voltage to be supplied from said power source is higher than said predetermined value, a voltage to be supplied to said amplifier circuit is changed by controlling a voltage of said power source, thus changing a drive level of said piezo-vibrator.

[Please amend claim 11 as follows:]

11. (Amended) The piezo-oscillator according to claim 2, wherein when said voltage to be supplied from said power source is higher than said predetermined value, a voltage to be supplied to said amplifier circuit is changed by controlling a voltage of said power source, thus changing a drive level of said piezo-vibrator.

[Please amend claim 12 as follows:]

12. (Amended) The piezo-oscillator according to claim 10, wherein drive level dependency characteristics of said piezo-vibrator are examined by controlling said drive level of said piezo-vibrator.

[Please amend claim 13 as follows:]

13. (Amended) The piezo-oscillator according to claim 11, wherein drive level dependency characteristics of said piezo-vibrator are examined by controlling said drive level of said piezo-vibrator.